

## ABSTRACT

New methods of manufacture are disclosed for producing side-polished fiber optic apparatuses, for use both singly and in compact arrays. These new methods involve process steps, many of which operate on many apparatus units simultaneously, with little additional manual labor over what is required to produce one unit at a time. High level assemblies of these fiber optic apparatuses are also disclosed as compact arrays that not only save space but allow for easy interconnection. Examples of apparatuses that can be made with the disclosed integrated side-polished fiber optic technology include, but aren't limited to, couplers, multiplexers, taps, splitters, joiners, filters, modulators and switches. By interconnecting elements within compact integrated arrays of these apparatuses, complicated photonic circuits can be readily constructed.